

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080319\
 Data File : VW011638.D
 Acq On : 03 Aug 2019 00:25
 Operator : SY/VA
 Sample : K4131-02
 Misc : 5.85G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 1S-D1-(0-1)

Quant Time: Aug 04 00:07:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	242607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	399956	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	334876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	249099	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	153809	55.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.42%	
35) Dibromofluoromethane	7.88	113	123553	55.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.12%	
50) Toluene-d8	10.32	98	490408	53.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.76%	
62) 4-Bromofluorobenzene	12.62	95	670326	204.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	409.32%	

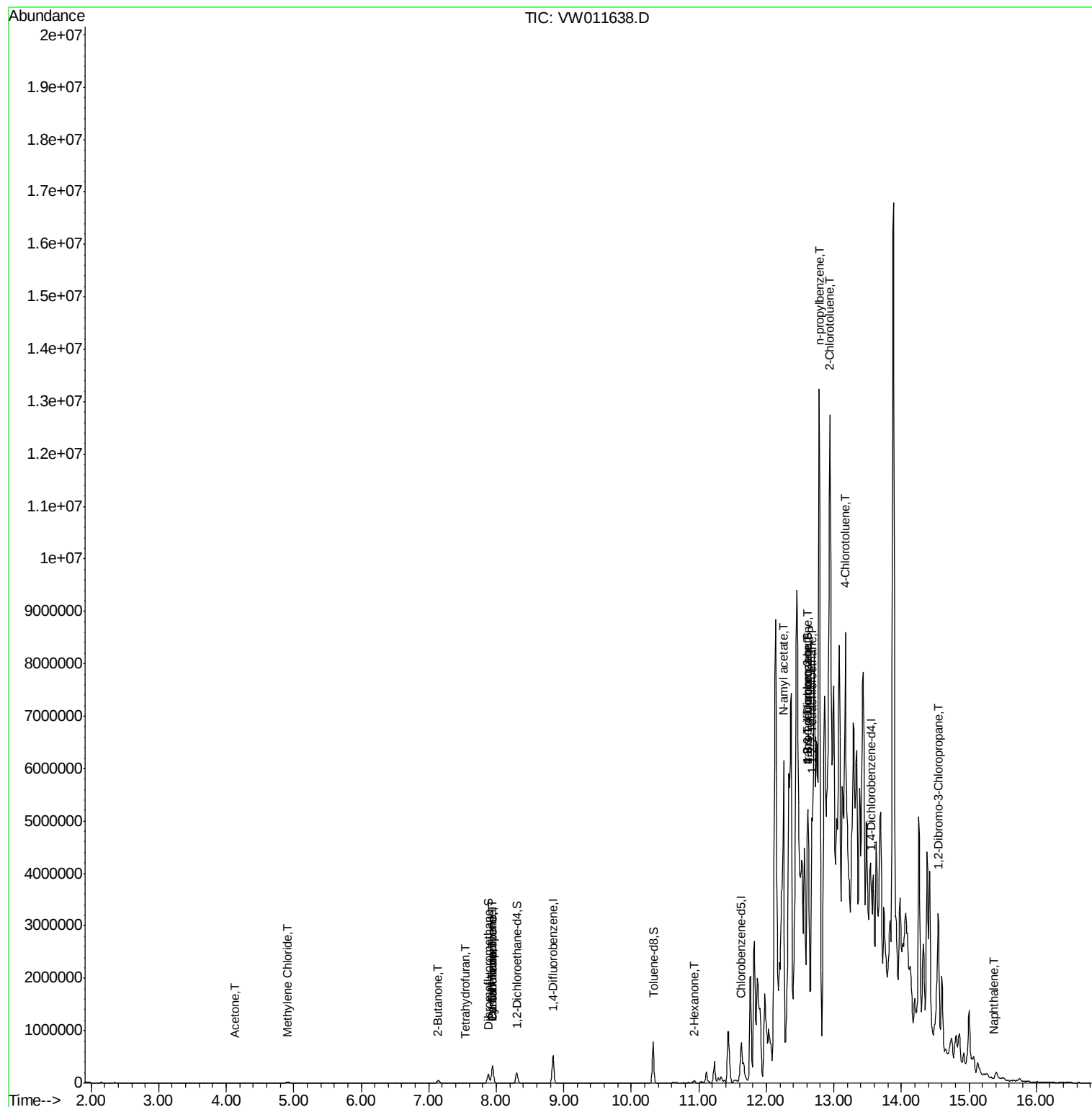
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	136	Below Cal	#	71
16) Acetone	4.14	43	9889	11.159	ug/l	91
20) Methylene Chloride	4.91	84	15478	5.064	ug/l	93
25) 2-Butanone	7.14	43	2601	2.243	ug/l #	75
29) Tetrahydrofuran	7.55	42	1183	1.785	ug/l #	84
31) Cyclohexane	7.95	56	6392	1.227	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	21094	5.072	ug/l #	52
38) Carbon Tetrachloride	7.95	117	23746	6.670	ug/l #	16
59) 2-Hexanone	10.93	43	19933	12.334	ug/l #	34
74) N-amyl acetate	12.26	43	1617192	277.963	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.68	83	373782	106.932	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	76453	29.006	ug/l #	100
78) n-propylbenzene	12.79	91	62910	2.782	ug/l #	56
79) 2-Chlorotoluene	12.94	91	79338	6.089	ug/l	78
81) trans-1,4-Dichloro-2-buten	12.62	75	76453	66.849	ug/l #	48
82) 4-Chlorotoluene	13.16	91	17265	1.263	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.55	75	1514	2.540	ug/l #	15
95) Naphthalene	15.36	128	2229	2.283	ug/l #	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :

MSVOA_W

ClientSampleId :

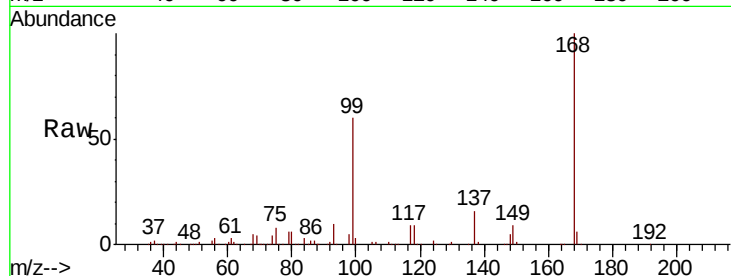
1S-D1-(0-1)

Tgt Ion:168 Resp: 242607

Ion Ratio Lower Upper

168 100

99 59.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

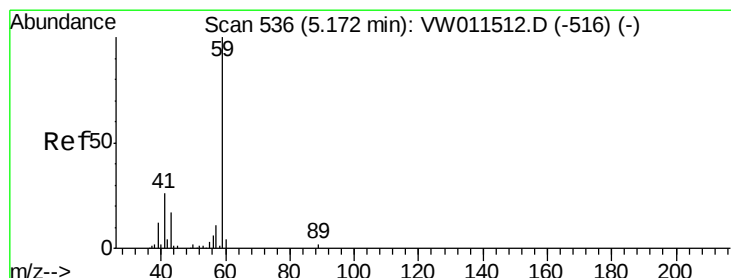
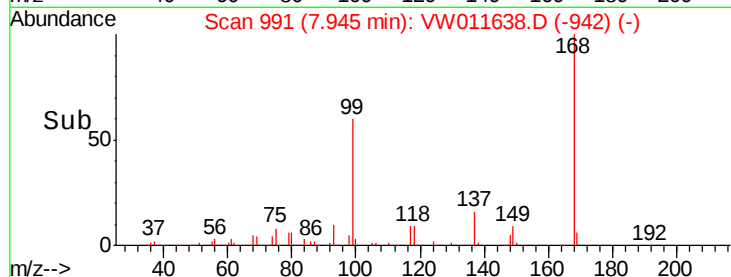
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW011638.D

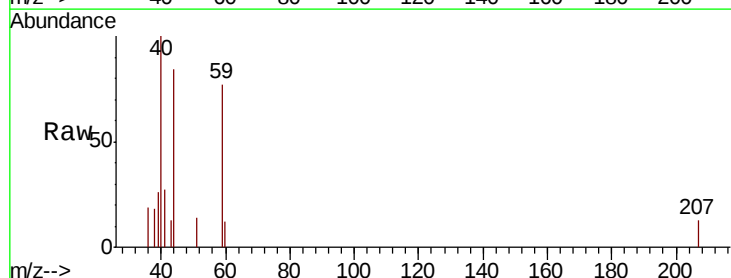
Acq: 03 Aug 2019 00:25

Tgt Ion: 59 Resp: 136

Ion Ratio Lower Upper

59 100

57 21.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

400

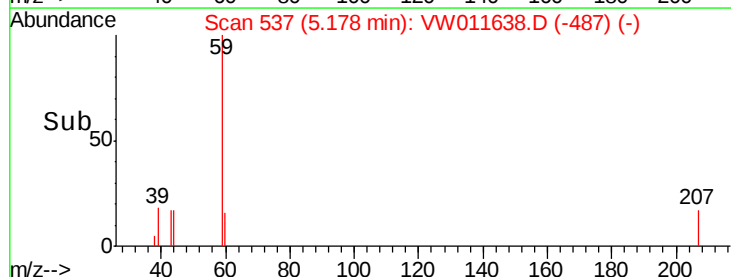
300

200

100

0

Time-->





#16

Acetone

Concen: 11.159 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :

MSVOA_W

ClientSampleId :

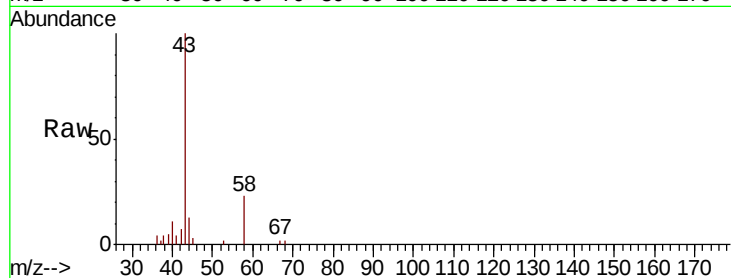
1S-D1-(0-1)

Tgt Ion: 43 Resp: 9889

Ion Ratio Lower Upper

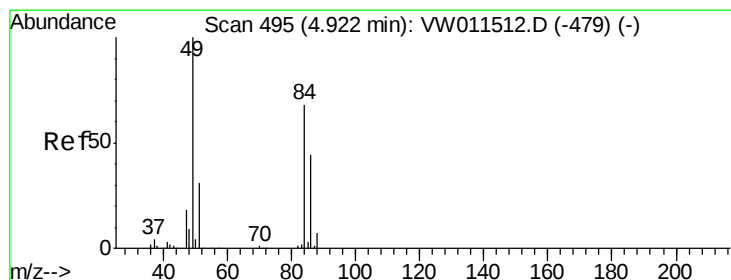
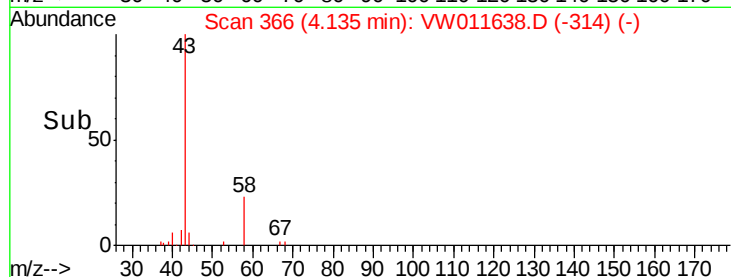
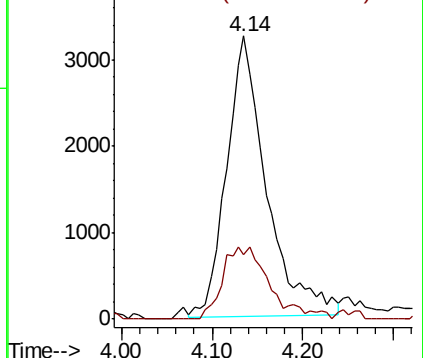
43 100

58 23.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 5.064 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Tgt Ion: 84 Resp: 15478

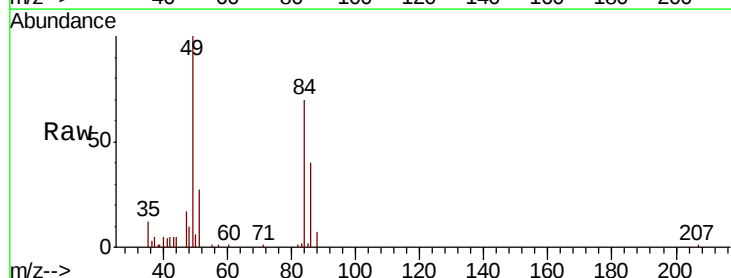
Ion Ratio Lower Upper

84 100

49 141.5 117.8 176.6

51 38.9 37.0 55.4

86 56.8 51.8 77.8

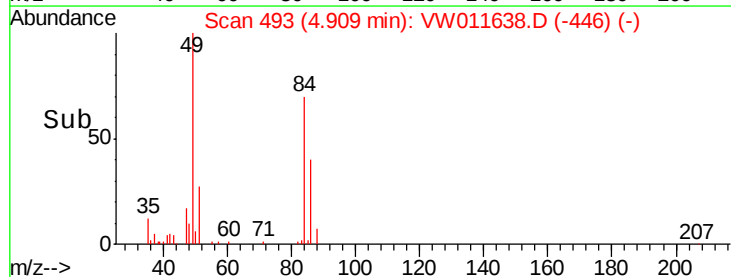
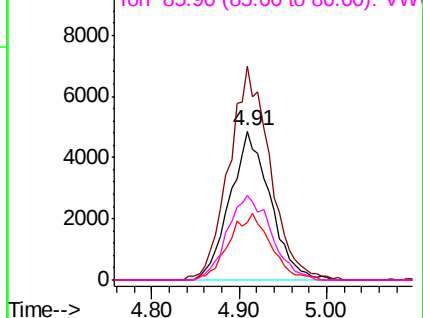


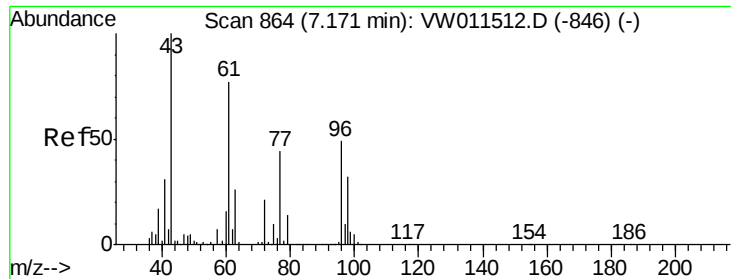
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

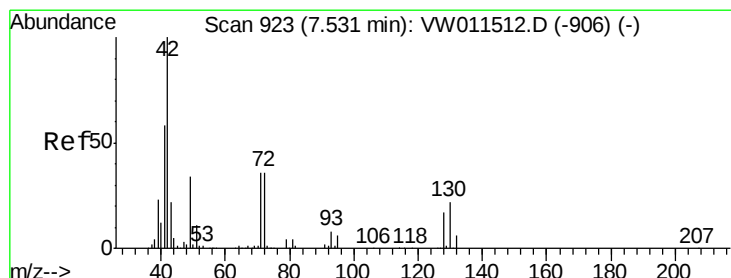
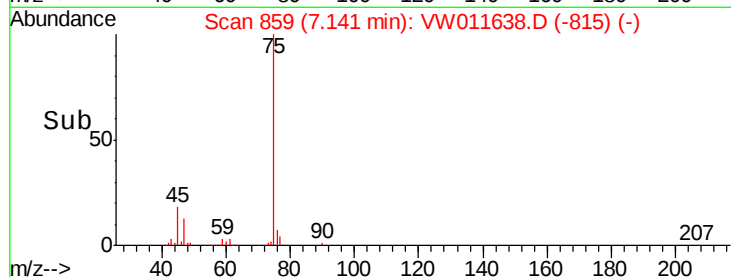
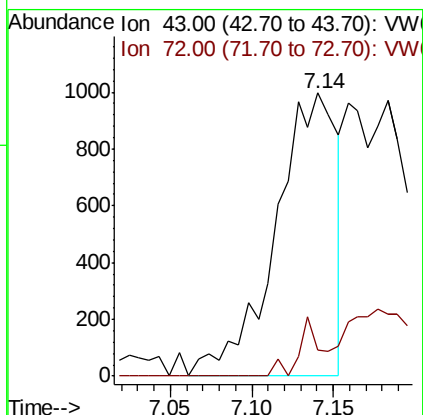
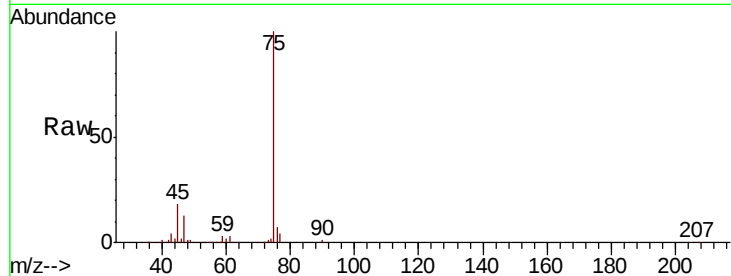




#25
2-Butanone
Concen: 2.243 ug/l
RT: 7.14 min Scan# 859
Delta R.T. -0.03 min
Lab File: VW011638.D
Acq: 03 Aug 2019 00:25

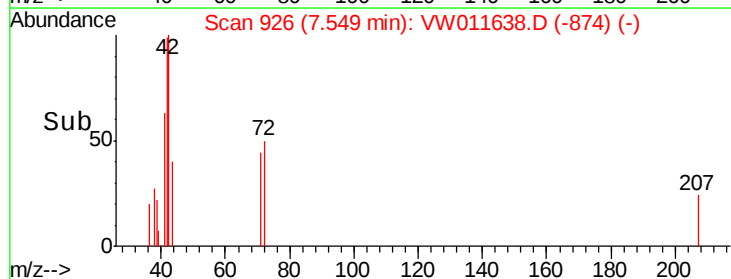
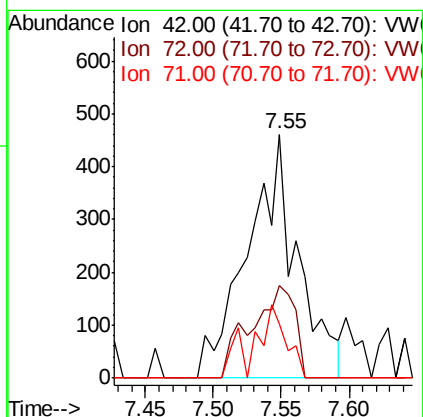
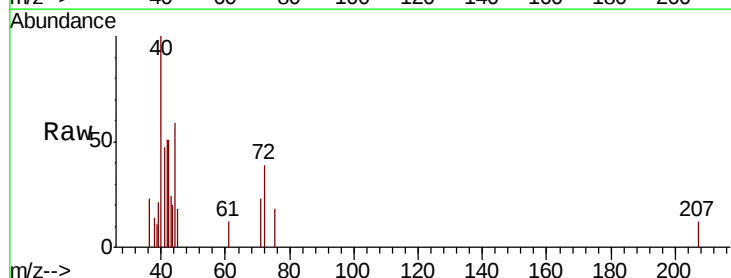
Instrument :
MSVOA_W
ClientSampled :
1S-D1-(0-1)

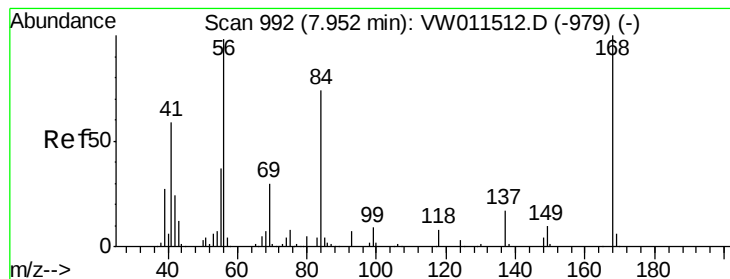
Tgt Ion: 43 Resp: 2601
Ion Ratio Lower Upper
43 100
72 9.1 16.6 24.8#



#29
Tetrahydrofuran
Concen: 1.785 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.02 min
Lab File: VW011638.D
Acq: 03 Aug 2019 00:25

Tgt Ion: 42 Resp: 1183
Ion Ratio Lower Upper
42 100
72 33.3 27.1 40.7
71 15.6 26.2 39.4#





#31

Cyclohexane

Concen: 1.227 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :
MSVOA_W
ClientSampleId :
1S-D1-(0-1)

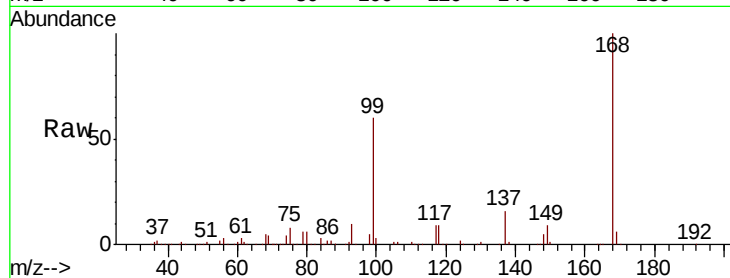
Tgt Ion: 56 Resp: 6392

Ion Ratio Lower Upper

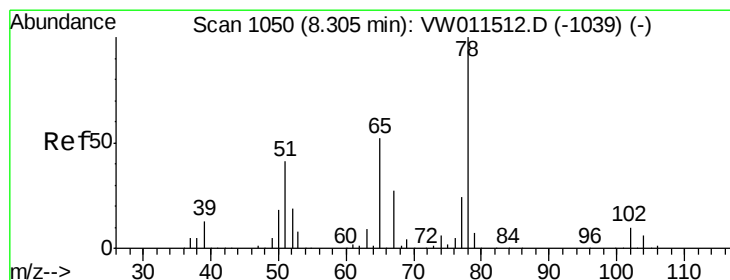
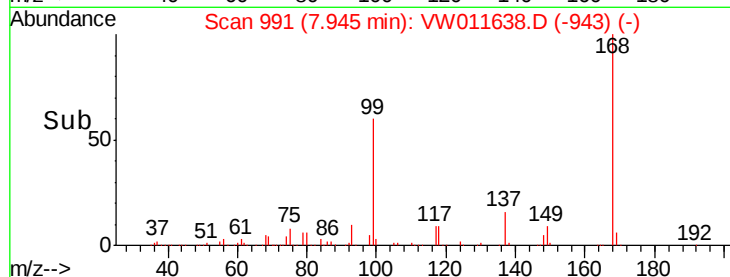
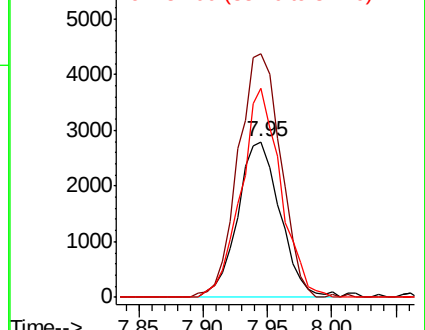
56 100

69 156.5 24.3 36.5#

84 134.7 60.4 90.6#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 55.212 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011638.D

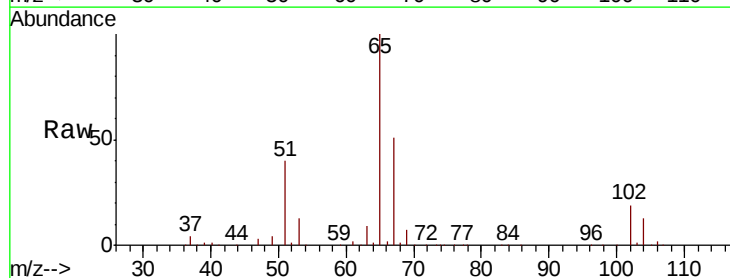
Acq: 03 Aug 2019 00:25

Tgt Ion: 65 Resp: 153809

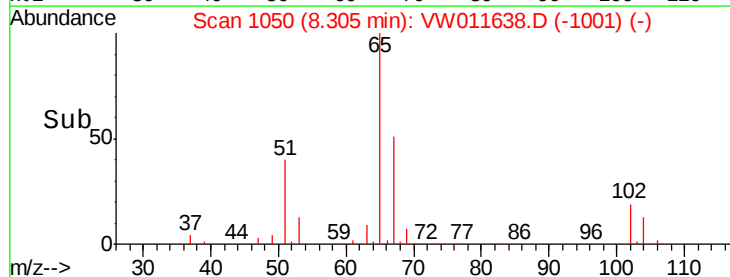
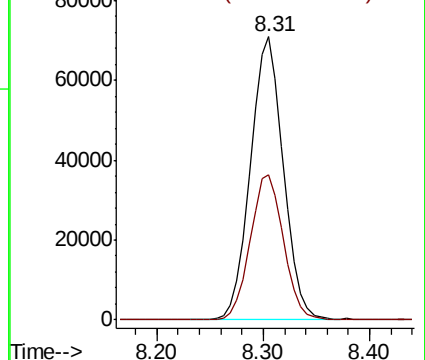
Ion Ratio Lower Upper

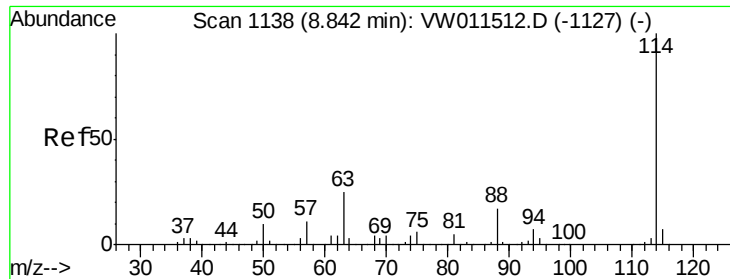
65 100

67 51.9 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

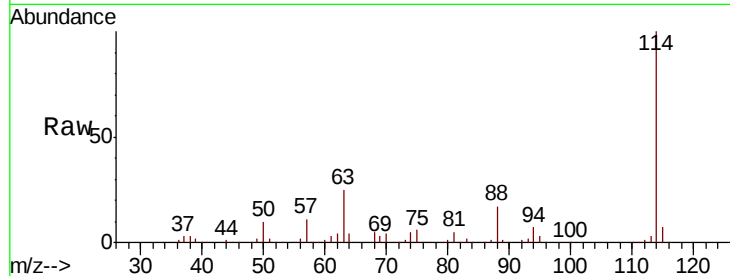




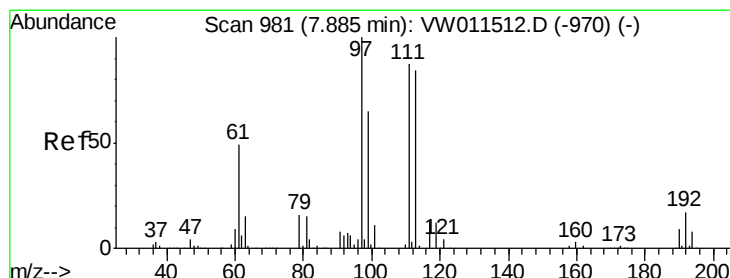
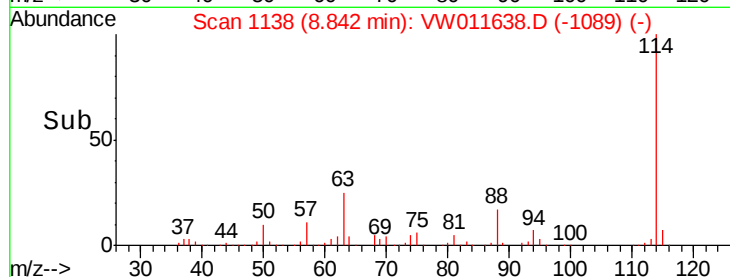
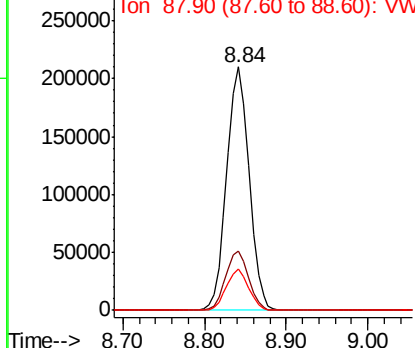
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011638.D
 Acq: 03 Aug 2019 00:25

Instrument :
 MSVOA_W
 ClientSampled :
 1S-D1-(0-1)

Tgt Ion:114 Resp: 399956
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.2
 88 16.9 0.0 33.8

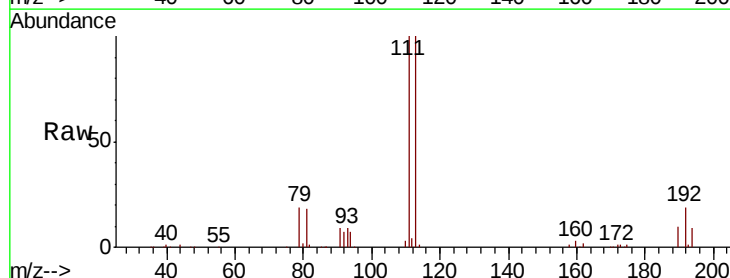


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

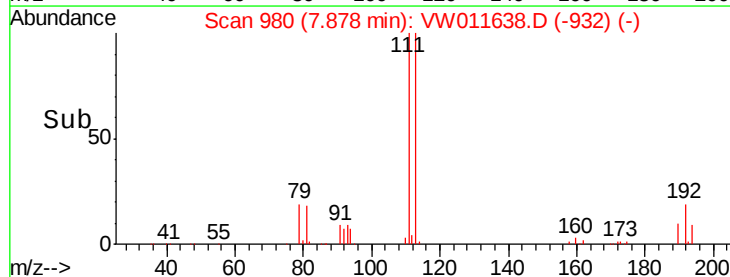
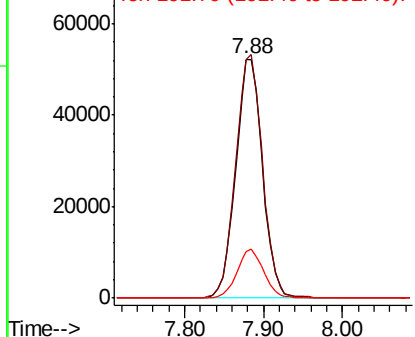


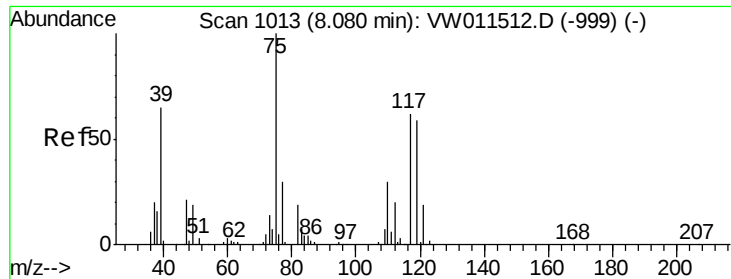
#35
 Dibromofluoromethane
 Concen: 55.064 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW011638.D
 Acq: 03 Aug 2019 00:25

Tgt Ion:113 Resp: 123553
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.7 124.1
 192 20.2 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

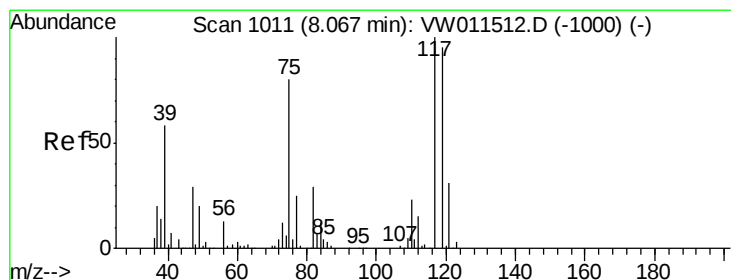
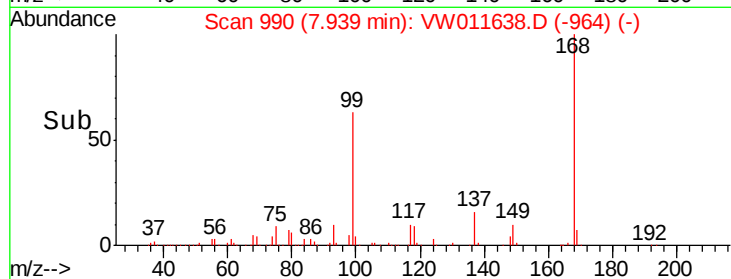
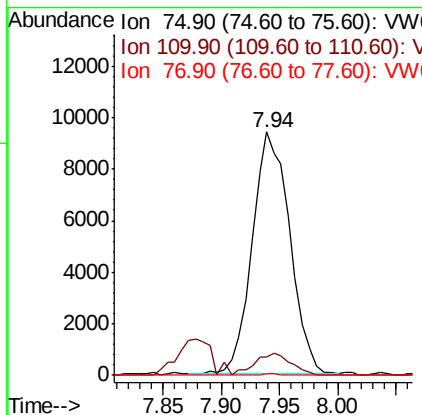
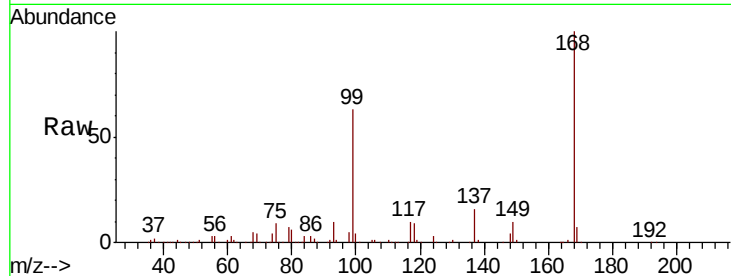




#36
 1,1-Dichloropropene
 Concen: 5.072 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW011638.D
 Acq: 03 Aug 2019 00:25

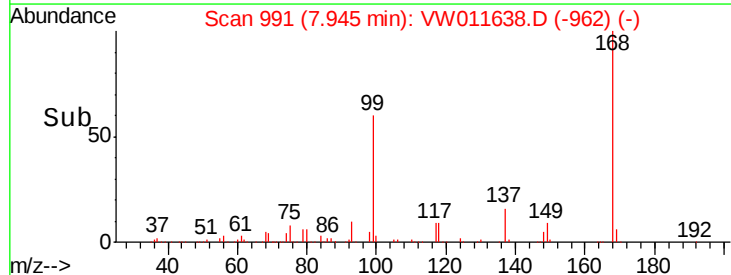
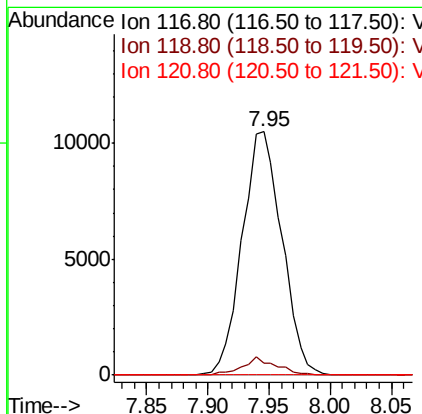
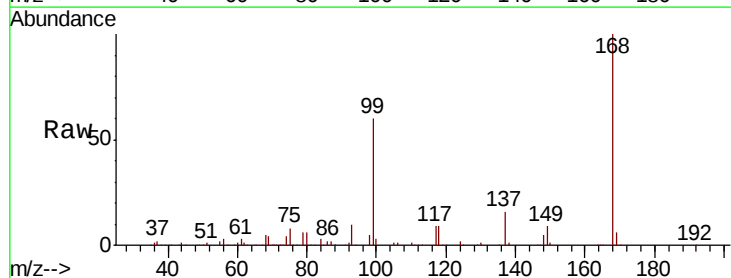
Instrument :
 MSVOA_W
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 1S-D1-(0-1)

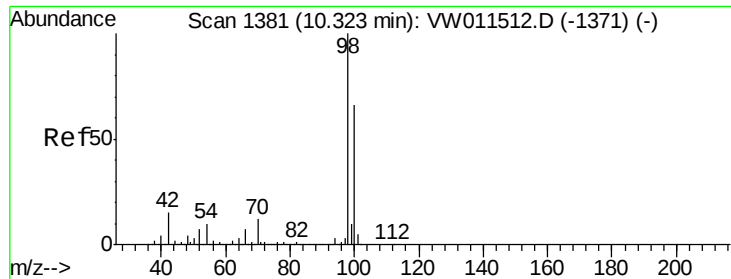
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	15.6	46.8#
77	0.2	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 6.670 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW011638.D
 Acq: 03 Aug 2019 00:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	75.8	113.6#
121	0.0	24.7	37.1#

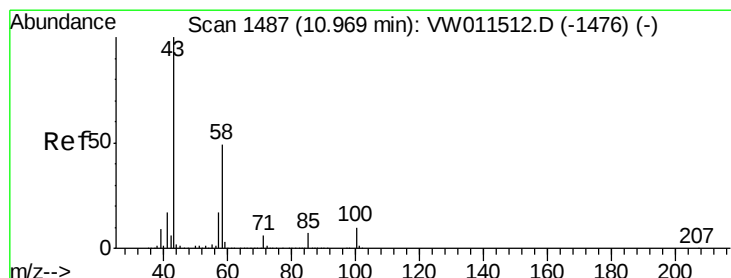
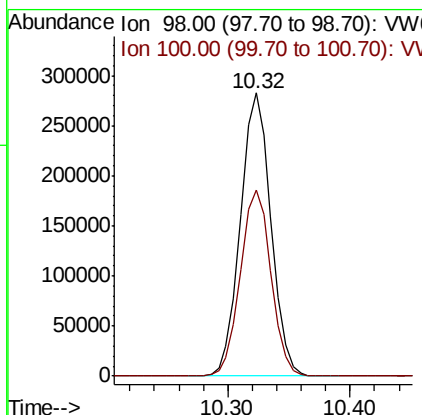
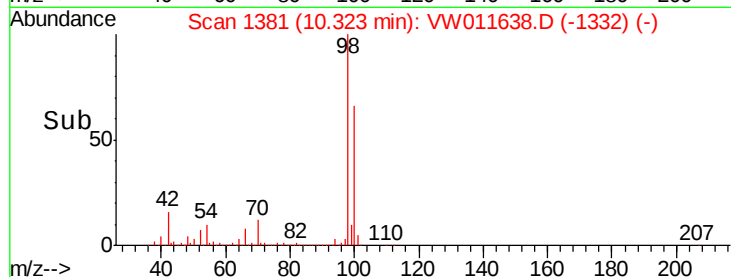
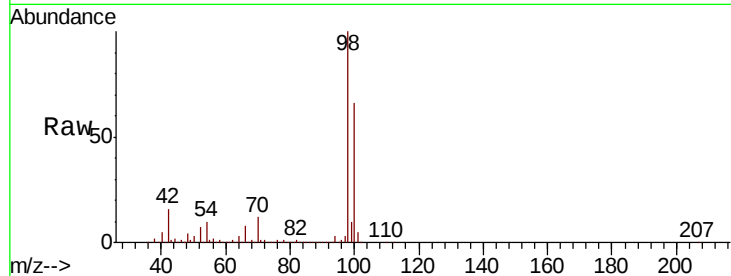




#50
Toluene-d8
Concen: 53.381 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011638.D
Acq: 03 Aug 2019 00:25

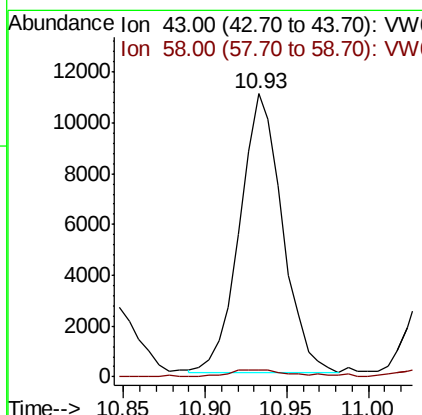
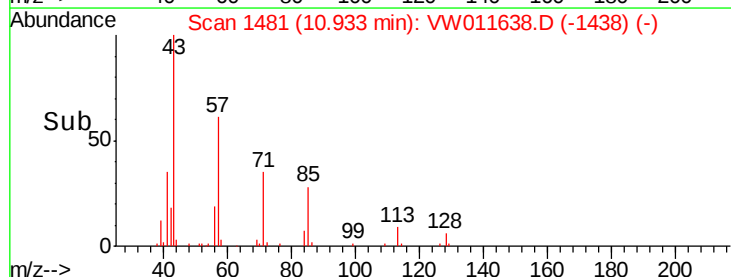
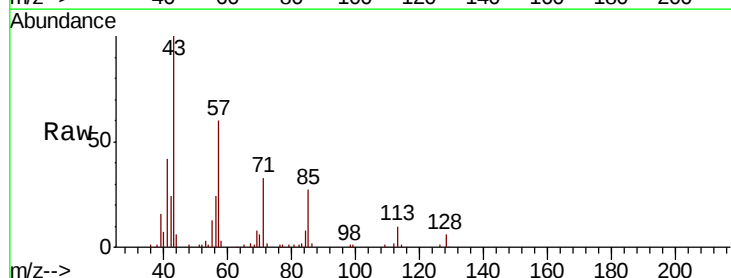
Instrument :
MSVOA_W
ClientSampleId :
1S-D1-(0-1)

Tgt Ion: 98 Resp: 490408
Ion Ratio Lower Upper
98 100
100 66.0 52.7 79.1



#59
2-Hexanone
Concen: 12.334 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW011638.D
Acq: 03 Aug 2019 00:25

Tgt Ion: 43 Resp: 19933
Ion Ratio Lower Upper
43 100
58 3.5 24.3 72.9#

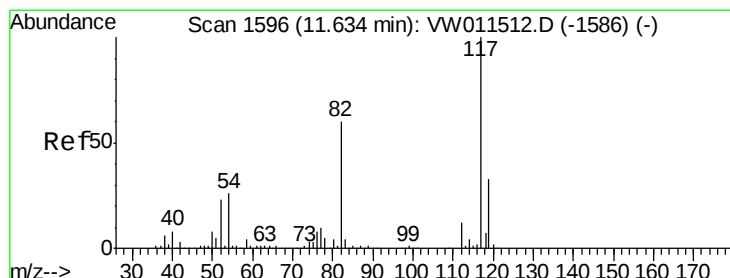
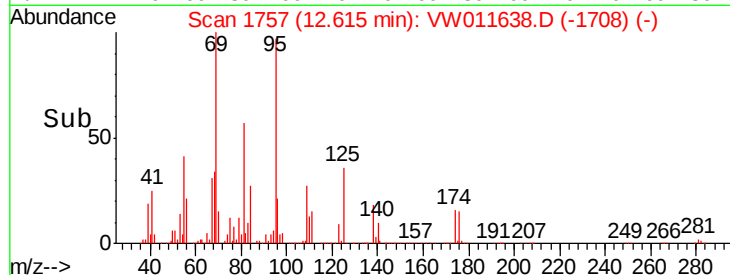
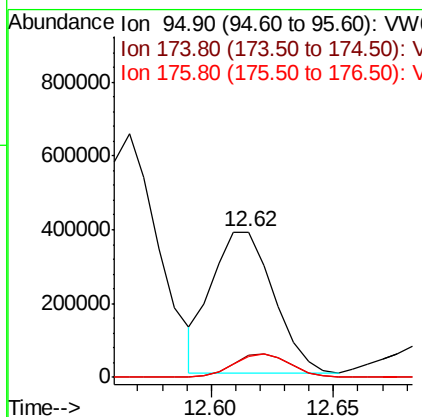
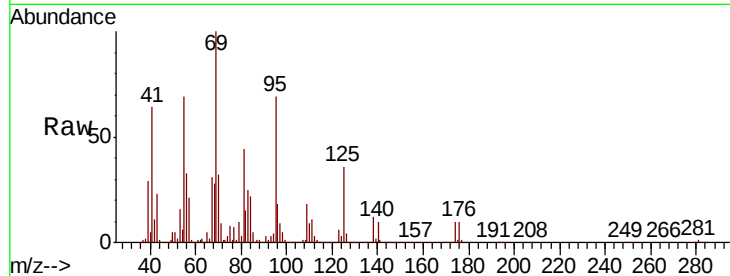




#62
4-Bromofluorobenzene
Concen: 204.661 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW011638.D
Acq: 03 Aug 2019 00:25

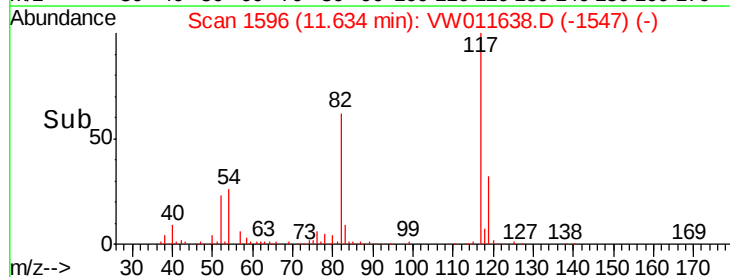
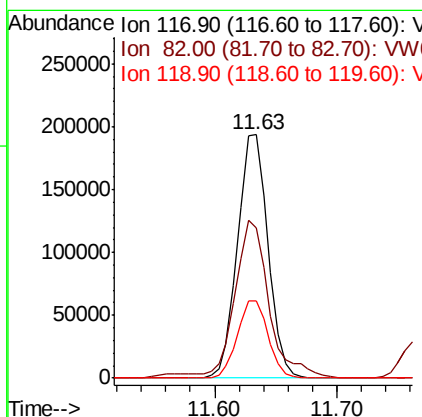
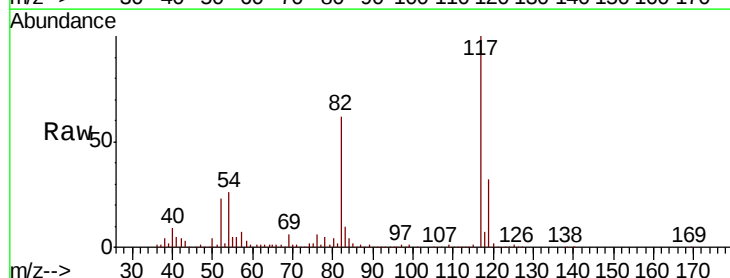
Instrument :
MSVOA_W
ClientSampleId :
1S-D1-(0-1)

Tgt Ion: 95 Resp: 670326
Ion Ratio Lower Upper
95 100
174 15.8 0.0 150.2
176 15.3 0.0 144.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011638.D
Acq: 03 Aug 2019 00:25

Tgt Ion: 117 Resp: 334876
Ion Ratio Lower Upper
117 100
82 61.6 47.9 71.9
119 31.5 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :

MSVOA_W

ClientSampleId :

1S-D1-(0-1)

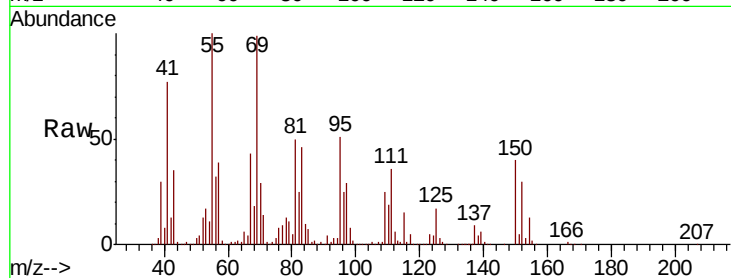
Tgt Ion:152 Resp: 249099

Ion Ratio Lower Upper

152 100

115 26.7 30.5 91.5#

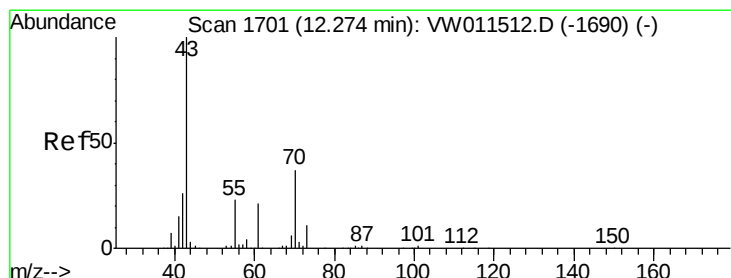
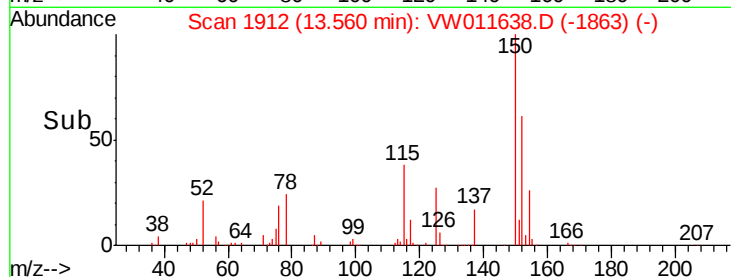
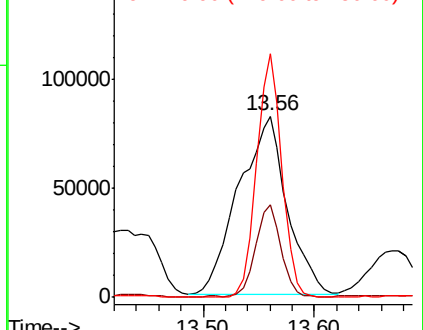
150 70.1 0.0 352.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 277.963 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Tgt Ion: 43 Resp: 1617192

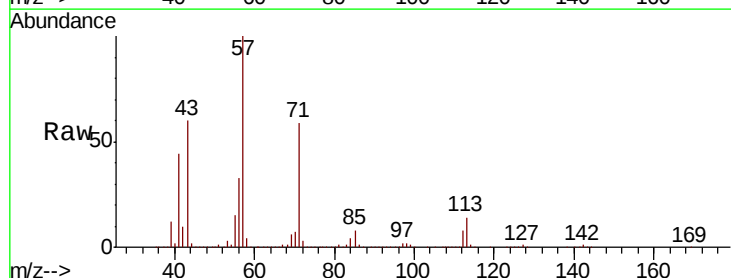
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.8#

61 0.0 17.0 25.6#

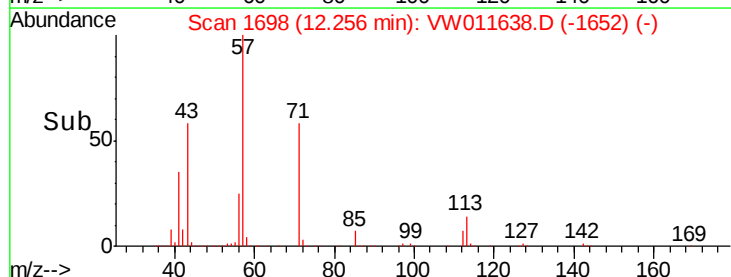
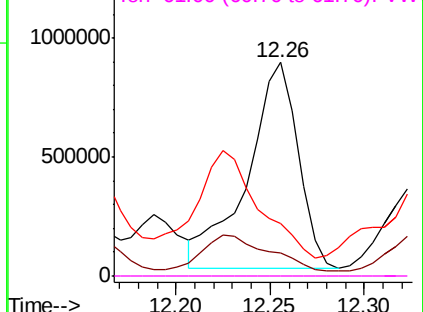


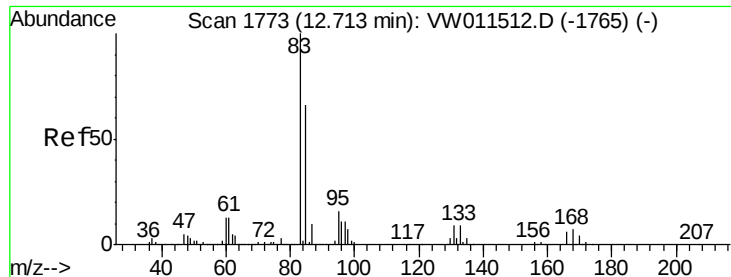
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

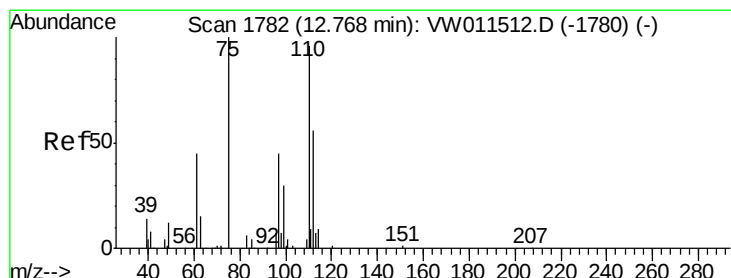
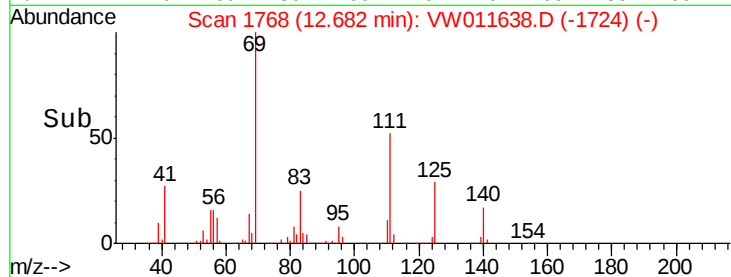
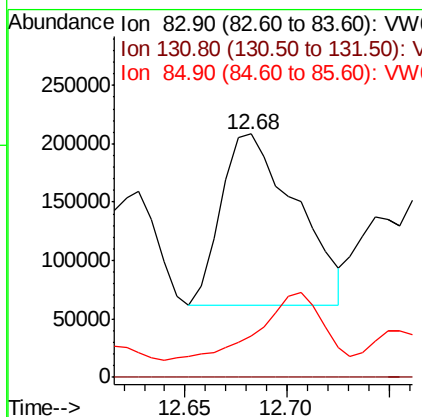
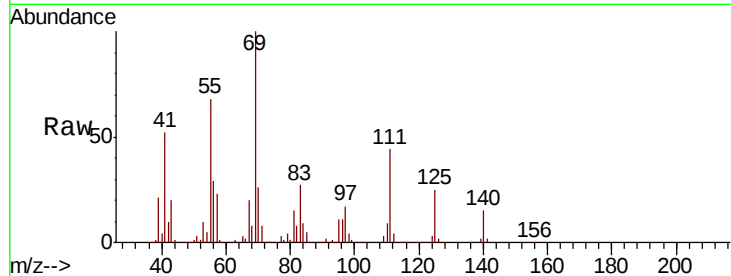




#75
 1,1,2,2-Tetrachloroethane
 Concen: 106.932 ug/l
 RT: 12.68 min Scan# 1768
 Delta R.T. -0.03 min
 Lab File: VW011638.D
 Acq: 03 Aug 2019 00:25

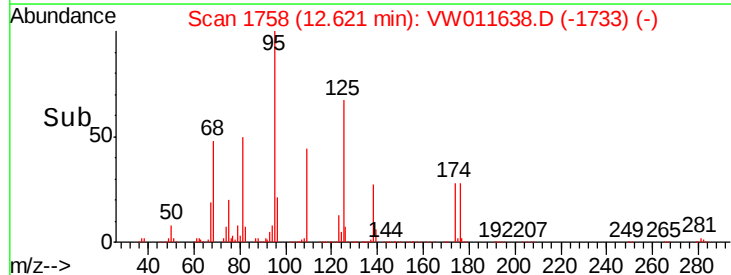
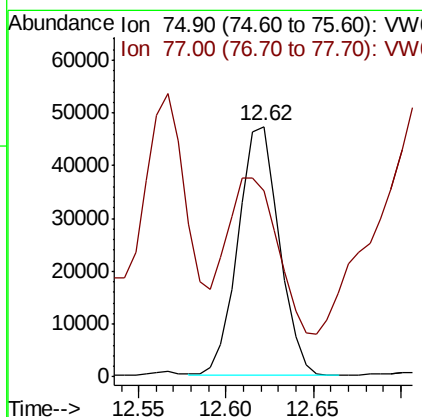
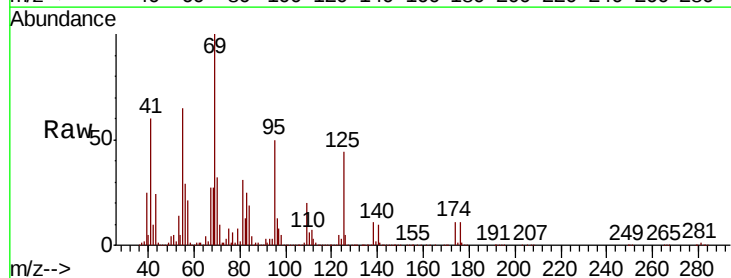
Instrument :
 MSVOA_W
 ClientSampled :
 1S-D1-(0-1)

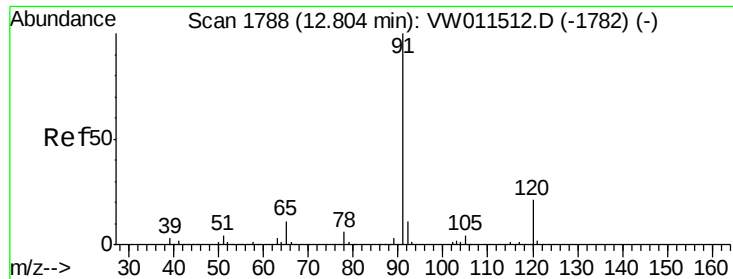
Tgt Ion: 83 Resp: 373782
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.9 14.6#
 85 0.0 31.8 95.4#



#76
 1,2,3-Trichloropropane
 Concen: 29.006 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW011638.D
 Acq: 03 Aug 2019 00:25

Tgt Ion: 75 Resp: 76453
 Ion Ratio Lower Upper
 75 100
 77 76.1 0.0 0.0#





#78

n-propylbenzene

Concen: 2.782 ug/l

RT: 12.79 min Scan# 1785

Delta R.T. -0.02 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :

MSVOA_W

ClientSampleId :

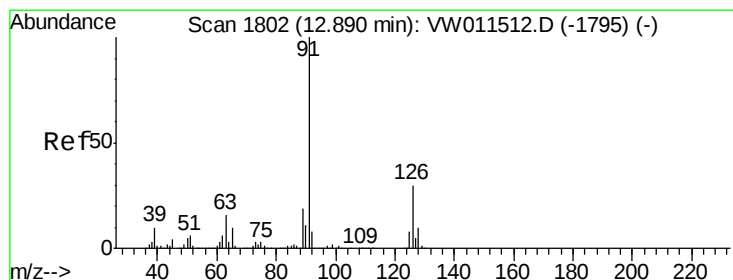
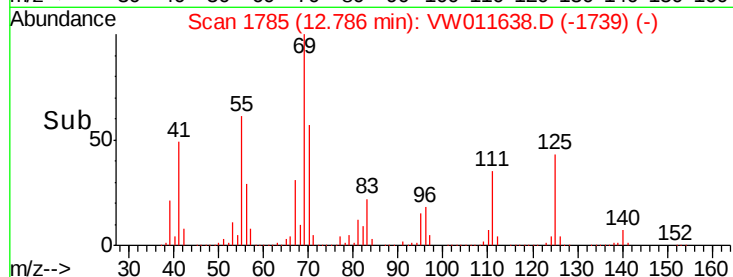
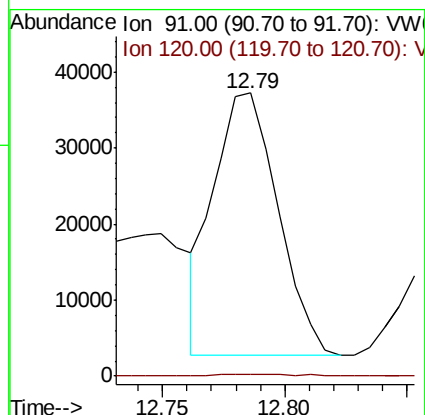
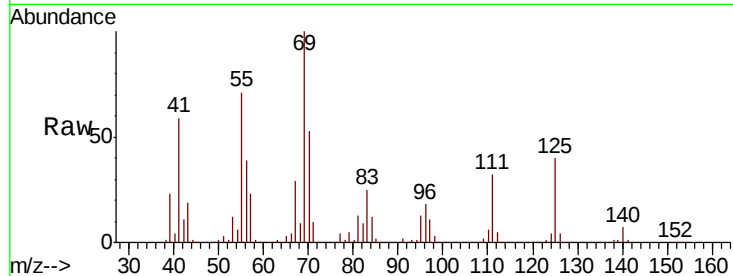
1S-D1-(0-1)

Tgt Ion: 91 Resp: 62910

Ion Ratio Lower Upper

91 100

120 1.0 10.9 32.7#



#79

2-Chlorotoluene

Concen: 6.089 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.05 min

Lab File: VW011638.D

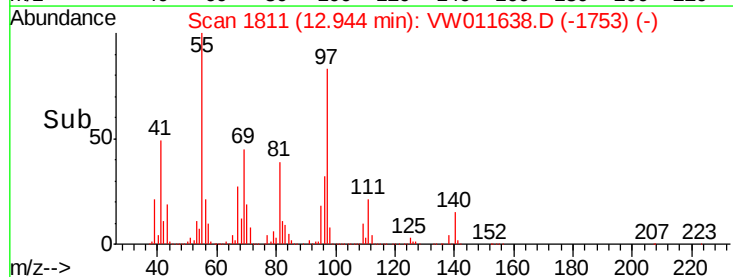
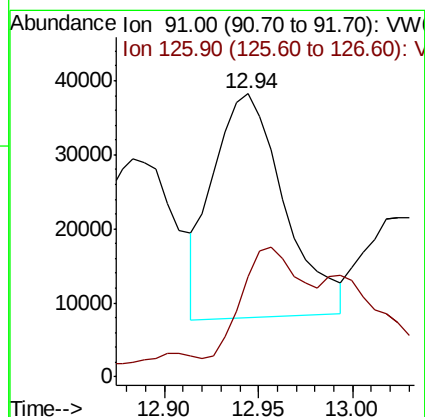
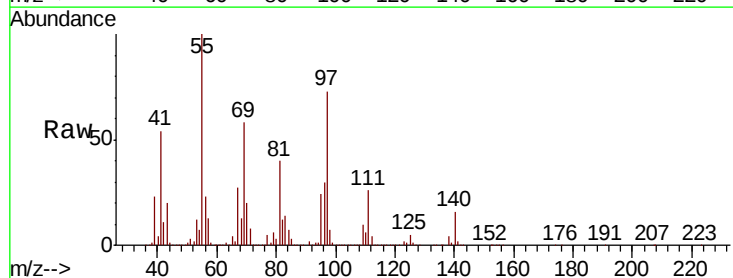
Acq: 03 Aug 2019 00:25

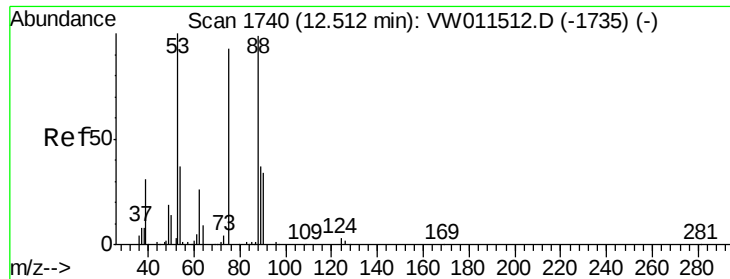
Tgt Ion: 91 Resp: 79338

Ion Ratio Lower Upper

91 100

126 43.3 15.7 47.1





#81

trans-1,4-Dichloro-2-butene

Concen: 66.849 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :

MSVOA_W

ClientSampleId :

1S-D1-(0-1)

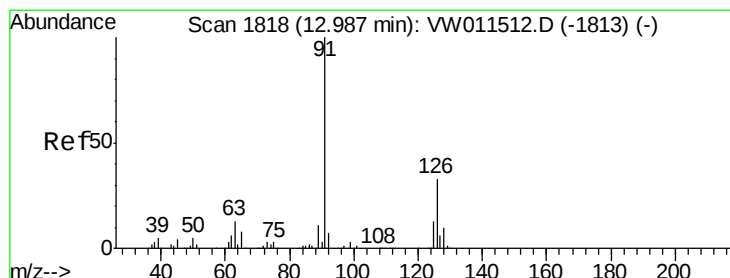
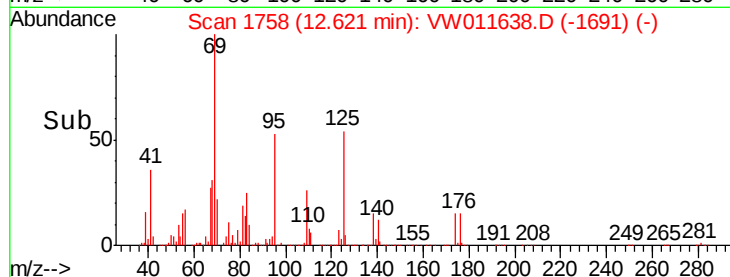
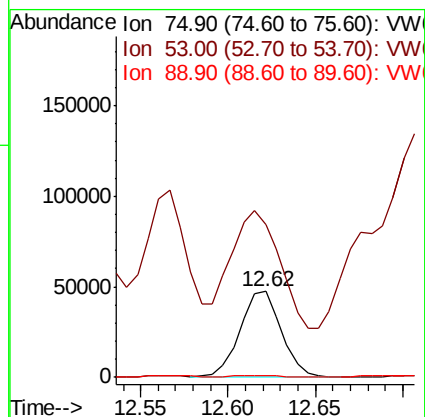
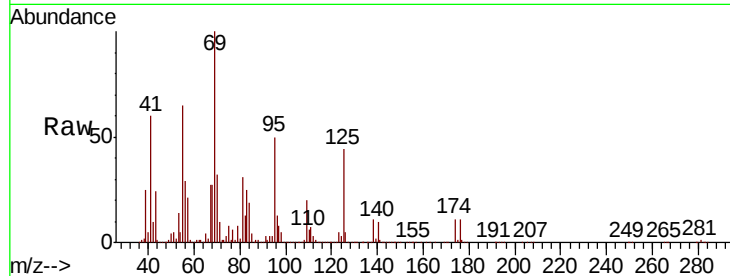
Tgt Ion: 75 Resp: 76453

Ion Ratio Lower Upper

75 100

53 159.7 88.0 132.0#

89 2.1 35.3 52.9#



#82

4-Chlorotoluene

Concen: 1.263 ug/l

RT: 13.16 min Scan# 1847

Delta R.T. 0.18 min

Lab File: VW011638.D

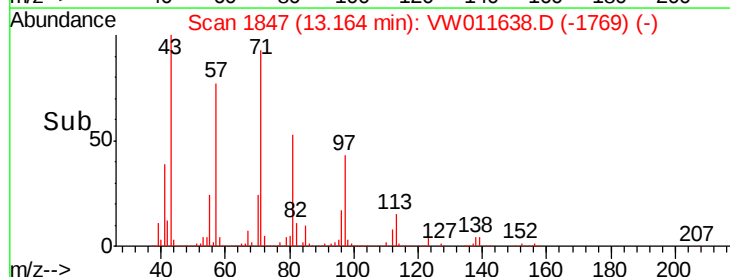
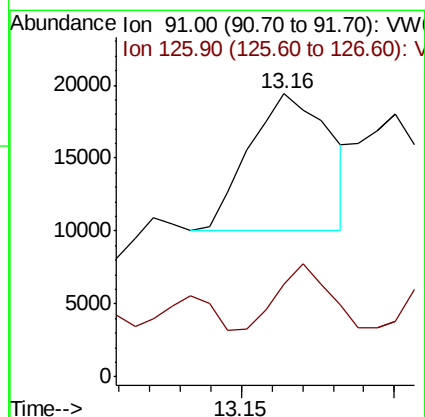
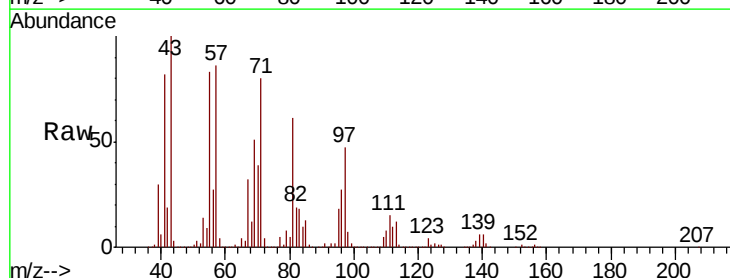
Acq: 03 Aug 2019 00:25

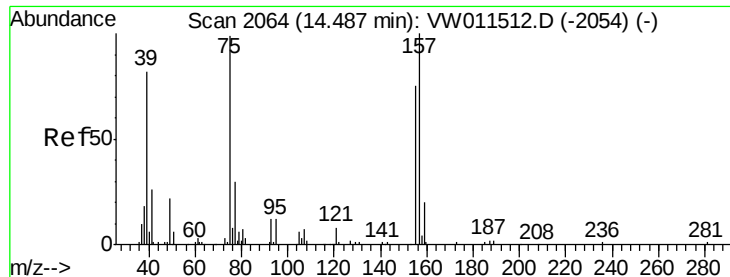
Tgt Ion: 91 Resp: 17265

Ion Ratio Lower Upper

91 100

126 31.8 15.6 46.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.540 ug/l

RT: 14.55 min Scan# 2074

Delta R.T. 0.06 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

Instrument :

MSVOA_W

ClientSampleId :

1S-D1-(0-1)

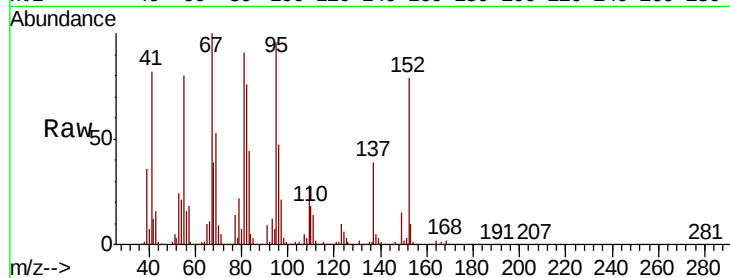
Tgt Ion: 75 Resp: 1514

Ion Ratio Lower Upper

75 100

155 19.6 38.2 114.6#

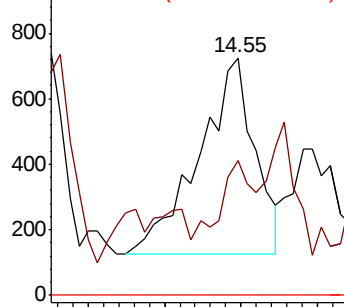
157 0.0 48.9 146.7#



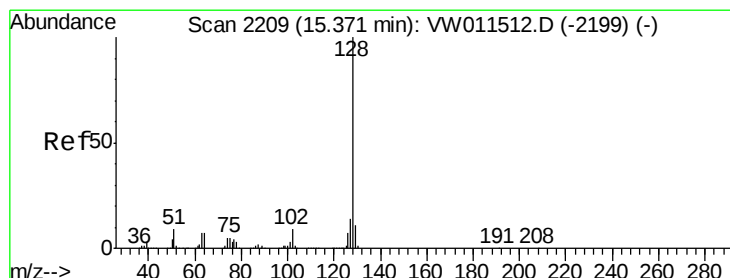
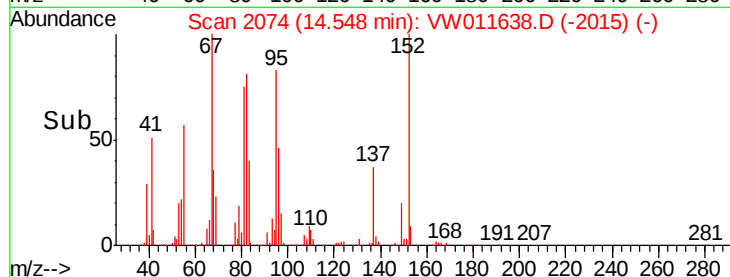
Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->



#95

Naphthalene

Concen: 2.283 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011638.D

Acq: 03 Aug 2019 00:25

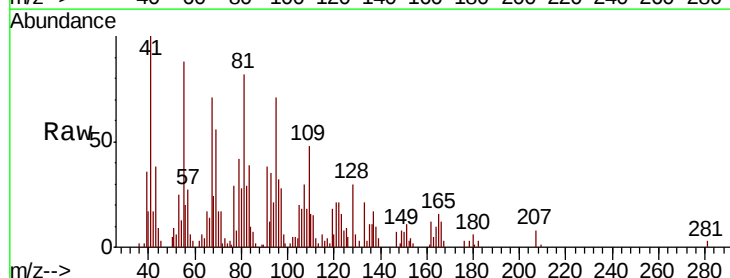
Tgt Ion: 128 Resp: 2229

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

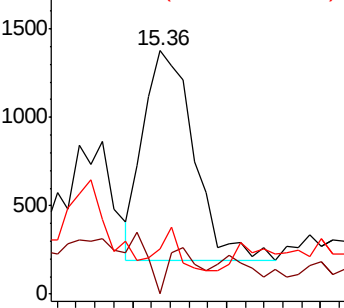
129 8.3 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

